

SEQUENCE LISTING

<110> Glassman, Kimberly F.
Gordon-Kamm, William J.
Kinney, Anthony
Lowe, Keith S.
Nichols, Scott E.
Stecca, Kevin L.

<120> RECOMBINANT CONSTRUCTS AND THEIR USE IN REDUCING GENE EXPRESSION

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<170> Microsoft Office 97

<210> 1
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<220>
<223> Description of Artificial Sequence: ELVISLIVES PCR primer

<400> 1
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<210> 2
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<220>
<223> Description of Artificial Sequence: PCR primer for amplification
of soybean Fad2-1

<400> 2
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<223> Description of Artificial Sequence: PCR primer for amplification
of soybean Fad2-1

<400> 3
agcaagtacc aatggggtgc atggttttcc 30

<210> 4
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<212> DNA
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 <223> Description of Artificial Sequence: PCR primer for amplification
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 agcaagtacc aatggatact tggttcctgta 30

 <210> 5
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 <223> Description of Artificial Sequence: PCR primer for amplification
 of soybean Fad2-1

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 <223> Description of Artificial Sequence: pKS102 linker

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 <223> Description of Artificial Sequence: PCR primer for amplification
 of Cer3

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 of Cer3

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<210> 9
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<400> 9
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<210> 10
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 of Cer3

<400> 10
 cagttctaca tatgcataaa cattgggcaa 30

<210> 11
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 region of pKS106 and pKS124

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<210> 17
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<400> 17
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<210> 18
 <211> 32
 <212> DNA
 <213> Artificial Sequence

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 <223> Description of Artificial Sequence: PCR primer for amplification
 of soybean Fad2-1, 5'-end

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 <210> 19
 <211> 32
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: PCR primer for amplification
 of soybean Fad2-1, 3'-end of 25 nucleotide fragment

 <400> 19
 gaattcgcg cgcgaacctt ggagaaccca at 32

 <210> 20
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>
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 of soybean Fad2-1, 3'-end 75 nucleotide fragment

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 <210> 21
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 <212> DNA
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 of soybean Fad2-1, 3'-end of 150 nucleotide fragment

 <400> 21
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 <210> 22
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR primer for amplification
 of soybean Fad2-1, 3'-end 300 nucleotide fragment

<400> 22
 gaattcgcgg .ccgcgagtgt gacgagaaga ga 32

<210> 23
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR primer for amplification
 of soybean Fad2-1, 3'-end 600 nucleotide fragment

<400> 23
 gaattcgcgg ccgcttctga tgaatcgtaa tg 32

<210> 24
 <211> 1717
 <212> DNA
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<220>
 <223> Description of Artificial Sequence: ELVISLIVES complementary
 region of pBS68

<400> 24
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 ttcactcaac acttttagtc ctttatttct catggaaaat aagccatcgc cgccatcact 180
 ccaacacagg ttcccttgac cgtgatgaag tggttggtccc aaaacaaaaa tccaaagtgt 240
 catggttttc caagtactta aacaaccctc taggaagggtc tggttctctt ctgcgtcacac 300
 tcacaatagg gtggcctatg tatttagcct tcaatgtctc tggtagaccc tatgatagtt 360
 ttgcaagcca ctaccaccct tatgctccca tatattctaa ccgtgagagg cttctgatct 420
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 aagggttgggt ttggctgcta tgtgtttatg ggggtgcctt gctcattgtg aacggttttc 540
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<210> 25
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<223> Description of Artificial Sequence: PCR primer for amplification
of soybean Lea promoter 5'-end

<400> 25
attaacctca attcttctaa g 21

<210> 26
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer for amplification
of soybean Lea promoter 3'end

<400> 26
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<210> 27
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer for amplification
of phaseolin terminator 5'-end

<400> 27
catggccacg tgcataagt at 22

<210> 28
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer for amplification
of phaseolin terminator 3'-end

<400> 28
atccctgaag tgtctcattt ta 22

<210> 29
<211> 963
<212> DNA
<213> Artificial Sequence

<223> Description of Artificial Sequence: ELVISLIVES complementary region of pKS149

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accactgtca	aaaccaccat	caccgacgt	caagccaagg	tcgccaccga	tcattggtcgt	120
gcctacgtca	ccttctctgc	cggaaacggt	gactatgtga	aagggtgtcgt	tggcttgga	180
aaaggtctga	gaaaagtga	gagcatgtac	cctctggtgg	ttgcagtgt	accgatgtt	240
ccccaagatc	accgcaacat	tctcacctcc	caaggttgca	ttgttagaga	gattgagccc	300
gtgtaccccc	cagagaatca	aaccagttt	gccatggcat	attacgtcat	caactattcc	360
aagctacgta	tttgggagtt	tgtggagta	agcaaatga	tatacctaga	cggatgatac	420
caagtttttg	acaacattga	ccacttggga	tcgatcctga	gctgatttaa	accacggttg	480
ttgccaatgt	caccaccgag	caattaccga	aggctcgtgg	aggaagtggg	cgtgccttcg	540
tgacctttct	tgctgggaac	ggtgattacg	taaagggtgt	cgtgggtttg	gccaaaggac	600
tgagaaaggc	caaaagcatg	taccttttgg	tggttgctgt	gttaccagat	gttcttgaag	660
aacatcgtga	gattctcaaa	tccaaggtt	gcattgtcag	ggagattgaa	cctgtgtacc	720
ctcctgagaa	ccagaccag	ttcgtcatgg	cctattatgt	catcaattac	tccaagctac	780
gtatttgga	gttcgtggag	tacaagaaga	cgatatacct	agacggtgac	atccaagtat	840
ttggaaacat	agaccacttg	tttgatctgt	gagctgattt	aagcggccgc	cgactcgacg	900
atgagcgaga	tgaccagctc	cggccgcgga	ctcgacgatg	agcgagatga	ccagctccgg	960
ccg						963

<213> Glycine max

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accgatcatg	gtcgtgccta	cgtcaccttc	ctcgccggaa	acggtgacta	tgtgaaaggt	120
gtcgttggct	tggcaaaagg	tctgagaaaa	gtgaagagca	tgtaccctct	ggtggttgca	180
gtgctaccgc	atgttcccca	agatcacccg	aacattctca	cctcccaagg	ttgcattgtt	240
agagagattg	agcccgtgta	ccccccagag	aatcaaacc	agtttgccat	ggcatattac	300
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cagatcgggt	actgccagca	gtgcccccat	aagggttcagt	ggcccaactca	ctttgggccc	540
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cgtgacctcc	ttcaaacagt	ccaagtcacc	cagcccactt	cctttgctga	acaggatttt	660
ttgaacatgt	acttcaagga	caaatatagg	ccaattccta	atgtctacaa	tcttgtgctg	720
gccatgctgt	ggcgtcaccc	tgagaacgtt	gagcttgaca	aagttaaagt	ggttcactac	780
tgtgctgctg	ggtctaagcc	ttggaggtac	actgggaagg	aggagaatat	ggagagagaa	840
gatatcaaga	tgttagtgaa	aaagtggtgg	gatatatatg	aggatgagac	tttgactac	900
aacaatccac	tcaatgtgga	taagttcact	cgggcactta	tggaggttgg	tgaagtcaag	960
ttcgtccgtg	ccccatctgc	tgcttaa				987

<213> Glycine max

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Ala Lys Val Ala Thr Asp His Gly Arg Ala Tyr Val Thr Phe Leu Ala
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 <212> DNA
 <213> Glycine max

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 ctaacatcac caccgttggt gccaatgtca ccaccgagca attaccaag gctcgtggag 180
 gaagtgggcg tgccttcgtg acctttcttg ctgggaacgg tgattacgta aagggtgtcg 240
 tgggtttggc caaaggactg agaaaggcca aaagcatgta ccctttggtg gttgctgtgt 300
 taccagatgt tcctgaagaa catcgtgaga ttctcaaata ccaaggttgc attgtcaggg 360
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 tcaattactc caagctacgt atttgggagt tegtggagta caagaagacg atatacctag 480
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 ttgggtactg ccaacagtgc cctgataagg ttcaatggcc ctctcacttt ggttccaaac 660
 ctctctata tttcaatgct ggcattgttg tttatgagcc taatctcgac acctaccgtg 720
 atctttctca aactgtccaa ctcaccaagc ccacttcttt tgctgagcag gactttctca 780
 acatgtactt caaggacaag tacaagccaa taccgaacat gtacaacctt gtgctggcca 840
 tgttggtggc tcaccctgaa aatgttgaac ttgataaagt tcaagtgggt cattactgtg 900
 ctgctgggtc taagccttgg aggttcaact ggaaggaaga gaacatggat aggggaagata 960
 tcaagatgct tgtgaagaag tgggtgggaca tatatgaaga tgagacactg gactacaata 1020
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 attaacgaca aagtatatgt attgttattt gctttttttt gtttttgggt cttatatatg 1200
 aaggaacaac gtctatggtt ttaatttggg tgaccttctt gtatacaaaag ccacatgtga 1260
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 cttaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1350

<210> 33
 <211> 358
 <212> PRT
 <213> Glycine max

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 Asn Leu Phe Leu Ser Ser Tyr Phe Pro Phe Gln Ile Met Pro Pro Asn
 20 25 30
 Ile Thr Thr Val Val Ala Asn Val Thr Thr Glu Gln Leu Pro Lys Ala
 35 40 45
 Arg Gly Gly Ser Gly Arg Ala Phe Val Thr Phe Leu Ala Gly Asn Gly
 50 55 60
 Asp Tyr Val Lys Gly Val Val Gly Leu Ala Lys Gly Leu Arg Lys Ala
 65 70 75 80
 Lys Ser Met Tyr Pro Leu Val Val Ala Val Leu Pro Asp Val Pro Glu
 85 90 95
 Glu His Arg Glu Ile Leu Lys Ser Gln Gly Cys Ile Val Arg Glu Ile
 100 105 110
 Glu Pro Val Tyr Pro Pro Glu Asn Gln Thr Gln Phe Ala Met Ala Tyr
 115 120 125

tctctttatc	tcttcatcag	gtttgacggt	tacttaatat	ggtgcatgca	tgggtacatc	240
actagaaacc	atggaaggtg	ccaagatata	aaccgcggaa	agatcgtaca	aatggcatgt	300
taaataaccg	tcaaacctga	tgaagagata	aagagatgaa	gacttaagtc	ataacacaaa	360
accataaaaa	acaaaaatac	aatcaaccgt	caatctgacc	aatgcatgaa	aaagctgcaa	420
tagtgagtgg	cgacacaaag	cacatgattt	tcttacaacg	gagataaaac	caaaaaaata	480
tttcatgaac	aacctagaac	aaataaagcg	ttaac			515

<210> 35
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 <212> DNA
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<400> 35						
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ctcaccaaac	ccaaccacgc	tctcaaaatc	aaatgttcca	tctccaaaacc	ccccacggcg	180
gcgccccttc	ccaaggaagc	gccgaccacg	gagcccttcg	tgtcacgggt	cgctccggcg	240
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 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR primer for amplification of soybean Fad2-1, 3'-end 50 nucleotide fragment

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 145 150 155 160
 Asp His Leu Phe Asp Leu Pro Asp Asn Tyr Phe Tyr Ala Val Met Asp
 165 170 175
 Cys Phe Cys Glu Lys Thr Trp Ser His Thr Pro Gln Phe Gln Ile Gly
 180 185 190
 Tyr Cys Gln Gln Cys Pro Asp Lys Val Gln Trp Pro Ser His Phe Gly
 195 200 205
 Ser Lys Pro Pro Leu Tyr Phe Asn Ala Gly Met Phe Val Tyr Glu Pro
 210 215 220
 Asn Leu Asp Thr Tyr Arg Asp Leu Leu Gln Thr Val Gln Leu Thr Lys
 225 230 235 240
 Pro Thr Ser Phe Ala Glu Gln Asp Phe Leu Asn Met Tyr Phe Lys Asp
 245 250 255
 Lys Tyr Lys Pro Ile Pro Asn Met Tyr Asn Leu Val Leu Ala Met Leu
 260 265 270
 Trp Arg His Pro Glu Asn Val Glu Leu Asp Lys Val Gln Val Val His
 275 280 285
 Tyr Cys Ala Ala Gly Ser Lys Pro Trp Arg Phe Thr Gly Lys Glu Glu
 290 295 300
 Asn Met Asp Arg Glu Asp Ile Lys Met Leu Val Lys Lys Trp Trp Asp
 305 310 315 320
 Ile Tyr Glu Asp Glu Thr Leu Asp Tyr Asn Asn Asn Ser Val Asn Val
 325 330 335
 Glu Arg Phe Thr Ser Ala Leu Leu Asp Ala Gly Gly Phe Gln Phe Val
 340 345 350
 Pro Ala Pro Ser Ala Ala
 355

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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: SHH3 complementary
 region of PHP17939

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32

[illegible]